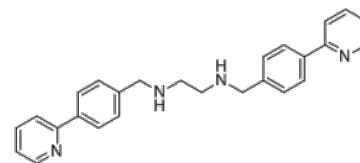


Product Name : BC-1215
Cat. No. : PC-60879
CAS No. : 1507370-20-8
Molecular Formula : C₂₆H₂₆N₄
Molecular Weight : 394.522
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



4. Chen BB, et al. *Nat Immunol.* 2013 May;14(5):470-9.

Biological Activity

BC-1215 (BC1215) is a potent, highly unique, selective **E3 ligase F box component Fbxo3** inhibitor with IL1 β IC₅₀ of 0.9 ug/mL.

BC-1215 inhibits the Fbxo3-TRAF activation pathway for cytokine release, increases immunoreactive Fbxl2 levels and reduces TRAF proteins, impairs Fbxo3 ubiquitination of Fbxl2 with IC₅₀ of 0.1 uM in vitro ubiquitination assay.

BC-1215 reversibly inhibits Fbxo3 to destabilize TRAF proteins, remarkably suppresses the majority of the Th1 panel cytokines including G-CSF, GM-CSF, GRO α , I-309, IL1- α , IL1- β , IL1 α , IL-6, IL-12, IL-23, MIP-1 α , MIP-1 β and TNF α , in PBMCs.

BC-1215 ameliorates the severity of viral pneumonia, septic shock, colitis, and cytokine-driven inflammation systemically in murine models.

References

Mallampalli RK, et al. *J Immunol.* 2013 Nov 15;191(10):5247-55.

Lin TB, et al. *J Neurosci.* 2015 Dec 16;35(50):16545-60.

Lai CY, et al. *J Neurosci.* 2016 Sep 14;36(37):9722-38.

